QC ABSTRACT

NAME OF WORK: Improvements to Roads and Drains at Ganesha Layout and Surrounding areas in Ward No.15 (Kuvempunagara)

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	Precast (250mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	PCC(M10)	Compressive Strength(7days and 28days)	2 sets /6-15 cum	6	4	4
9	RCC(M20)	Compressive Strength(7days and 28days)	5 sets /51-100 cum	88	10	10

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2023-12-13-05** **Date: 21-10-23**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore
Project Name	:	Improvements to Roads and Drains at Ganesha Layout and Surrounding areas in Ward No 15 (Kuvempunagara)
Agency	:	Sri. B P Shanmugam, #28/2, 2nd Cross, Giddappa Block, Ganganagar, Bengaluru-560032
Customer's Reference	:	BBMP/EE/BTP/WO/169/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-10-23
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269 2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5) 1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	19-10-23
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	Fineness by dry sieving (%)	2.15	–
2	Finess by Air permeablity method (m^2/kg,Min)	282.2	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	185 minutes	Not less than 30 minutes
6	Final Setting time	280 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Agency/Representative

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Quality Manager

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Format No: CP/TR/1

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2023-12-13-05** **Date: 16-11-23**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Ganesha Layout and Surrounding areas in Ward No.15 (Kuvempunagara)
Agency	:	Sri. B P Shanmugam, #28/2, 2nd Cross, Giddappa Block, Ganganagar, Bengaluru-560032.
Customer's Reference	:	BBMP/EE/BTP/WO/169/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-10-23
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269 2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5) 1988 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	19-10-23
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	54.5N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2023-12-13-05** **Date: 21-10-23**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Ganesha Layout and Surrounding areas in Ward No.15 (Kuvempunagara)
Agency	:	Sri. B P Shanmugam, #28/2, 2nd Cross, Giddappa Block, Ganganagar, Bengaluru-560032.
Customer's Reference	:	BBMP/EE/BTP/WO/169/2022-23
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	18-10-23
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	18-10-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	374	374	2.5	97.5	90-100
3	20 mm	6738	7112	47.4	52.6	30-70
4	10 mm	5274	12386	82.6	17.4	10-35
5	4.75 mm	2081	14467	96.4	3.6	0-5
6	Pan	533	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2023-12-13-05** **Date: 21-10-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.5	
3	Specific Gravity	2.65	-
4	Bulk Density(Loose) (Kg/l)	1.49	-
5	Bulk Density(Compacted) (Kg/l)	1.51	-
6	Water Absorption(%)	0.25	-

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2023-12-13-05** **Date: 20-10-23**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Ganesha Layout and Surrounding areas in Ward No.15 (Kuvempunagara)
Agency	:	Sri. B P Shanmugam, #28/2, 2nd Cross, Giddappa Block, Ganganagar, Bengaluru-560032.
Customer Reference	:	BBMP/EE/BTP/WO/169/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-10-23
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	18-10-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	159	159	3.2	96.8	90-100
3	10 mm	2541	2700	54.0	46.0	25-55
4	4.75 mm	2117	4817	96.3	3.7	0-10
5	Pan	183	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2023-12-13-05** **Date: 20-10-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	14.8	
3	Specific Gravity	2.62	–
4	Bulk Density(Loose) (Kg/l)	1.50	–
5	Bulk Density(Compacted) (Kg/l)	1.55	–
6	Water Absorption(%)	0.28	–
7	Aggregate crushing Value(%)	26.6	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	24.3	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2023-12-13-05** **Date: 20-10-23**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Ganesha Layout and Surrounding areas in Ward No.15 (Kuvempunagara)

Agency : Sri. B P Shanmugam, #28/2, 2nd Cross, Giddappa Block, Ganganagar, Bengaluru-560032.

Customer's Reference : BBMP/EE/BTP/WO/169/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-10-23

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 18-10-23

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	35	35	3.5	96.5	90-100	90-100	90-100	95-100
3	2.36 mm	172	207	20.7	79.3	60-95	75-100	85-100	95-100
4	1.18 mm	116	323	32.3	67.7	30-70	55-90	75-100	90-100
5	600 micron	201	524	52.4	47.6	15-34	35-59	60-79	80-100
6	300 micron	217	741	74.1	25.9	5-20	8-30	12-40	15-50
7	150 micron	183	924	92.4	7.6	0-10	0-10	0-10	0-15
8	Pan	76	1000	100.0	0.0	---	---	---	---

Result : The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2023-12-13-05** **Date: 20-10-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.94	–
2	Specific Gravity	2.55	–
3	Material finer than 75 micron(%)	7.6	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2023-12-13-05** **Date: 19-10-23**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Ganesha Layout and Surrounding areas in Ward No.15 (Kuvempunagara)
Agency	:	Sri. B P Shanmugam, #28/2, 2nd Cross, Giddappa Block, Ganganagar, Bengaluru-560032.
Customer's Reference	:	BBMP/EE/BTP/WO/169/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-10-23
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.
Date of test	:	18-10-23

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2023-12-13-05** **Date: 25-10-23**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Ganesha Layout and Surrounding areas in Ward No.15 (Kuvempunagara)

Agency : Sri. B P Shanmugam, #28/2, 2nd Cross, Giddappa Block, Ganganagar, Bengaluru-560032.

Customer's Reference : BBMP/EE/BTP/WO/169/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-10-23

Sample Type /Size : Precast Cover Slab (100mm Thick)

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete

Date of test : 21/10/2023

Grade of Slab : M15

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	77.52	100.48	1.116	4719	80.9	17.1	15.9	19.9
2	Cover Slab-2	77.45	100.52	1.122	4710	82.3	17.5	16.2	20.3
3	Cover Slab-3	77.68	100.51	1.118	4738	81.5	17.2	16.0	20.0

* The results obtained are satisfactory as per standard requirements.

Note:

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Date: 25-10-23

Lab ID	:	**CP-2023-12-13-05**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Ganesha Layout and Surrounding areas in Ward No.15 (Kuvempunagara)
Agency	:	Sri. B P Shanmugam, #28/2, 2nd Cross, Giddappa Block, Ganganagar, Bengaluru-560032.
Customer's Reference	:	BBMP/EE/BTP/WO/169/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-10-23
Sample Type /Size	:	Precast Cover Slab (250mm Thick)
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
Date of test	:	21/10/2023
Grade of Slab	:	M15

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	77.62	250.42	3.114	4731	83.5	17.6	16.4	20.5
2	Cover Slab-2	77.88	250.62	3.120	4763	85.4	17.9	16.7	20.8
3	Cover Slab-3	77.16	250.18	3.116	4675	82.8	17.7	16.5	20.6

* The results obtained are satisfactory as per standard requirements.

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-12-13-05 **Date:** 02/11/2023

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Ganesha Layout and Surrounding areas in Ward No 15 (Kuvempunagara)

Agency : Sri. B P Shanmugam, #28/2, 2nd Cross, Giddappa Block, Ganganagar, Bengaluru-560032

Customer's Reference : BBMP/EE/BEP/WO/169/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-10-23

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5

Date of test : 01/11/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	25/10/2023	01/11/2023	150.48 X 150.19 X 150.48	22601	8.318	319.4	14.1	14.2
2	Drain Bottom Slab Concrete	M20	25/10/2023	01/11/2023	150.73 X 150.64 X 150.51	22705	8.763	327.0	14.4	
3	Drain Bottom Slab Concrete	M20	25/10/2023	01/11/2023	150.02 X 150.06 X 150.53	22513	8.614	316.6	14.1	

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Agency/Representative

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Samples will be disposed after 30 days from the date of issue of test certificate

CIVIL Pro Sig Date BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AEE (VRP) SD

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-12-13-05** **Date: 22/11/2023**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Ganesha Layout and Surrounding areas in Ward No.15 (Kuvempunagara)

Agency : Sri. B P Shanmugam, #28/2, 2nd Cross, Giddappa Block, Ganganagar, Bengaluru-560032.

Customer's Reference : BBMP/EE/BTP/WO/169/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-10-23

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/11/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	25/10/2023	22/11/2023	150.41 X 150.84 X 150.35	22687	8.486	528.5	23.3	23.7
2	Drain Bottom Slab Concrete	M20	25/10/2023	22/11/2023	150.85 X 150.58 X 150.88	22715	8.999	544.4	24.0	
3	Drain Bottom Slab Concrete	M20	25/10/2023	22/11/2023	150.83 X 150.18 X 150.62	22652	8.137	541.9	23.9	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-12-13-05** **Date: 02/11/2023**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Ganesha Layout and Surrounding areas in Ward No.15 (Kuvempunagara)
Agency	:	Sri. B P Shanmugam, #28/2, 2nd Cross, Giddappa Block, Ganganagar, Bengaluru-560032.
Customer's Reference	:	BBMP/EE/BTP/WO/169/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-10-23
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/11/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	25/10/2023	01/11/2023	150.72 X 150.08 X 150.31	22620	8.637	317.7	14.0	14.5
2	Drain Bottom Slab Concrete	M20	25/10/2023	01/11/2023	150.52 X 150.07 X 150.17	22588	8.789	331.8	14.7	
3	Drain Bottom Slab Concrete	M20	25/10/2023	01/11/2023	150.24 X 150.65 X 150.24	22634	8.584	334.1	14.8	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-12-13-05** **Date: 22/11/2023**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Ganesha Layout and Surrounding areas in Ward No.15 (Kuvempunagara)
Agency	:	Sri. B P Shanmugam, #28/2, 2nd Cross, Giddappa Block, Ganganagar, Bengaluru-560032.
Customer's Reference	:	BBMP/EE/BTP/WO/169/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-10-23
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	22/11/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	25/10/2023	22/11/2023	150.40 X 150.96 X 150.54	22703	8.701	543.6	23.9	23.4
2	Drain Bottom Slab Concrete	M20	25/10/2023	22/11/2023	150.93 X 150.43 X 150.15	22704	8.321	525.5	23.1	
3	Drain Bottom Slab Concrete	M20	25/10/2023	22/11/2023	150.06 X 150.81 X 150.61	22631	8.257	525.5	23.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-12-13-05** **Date: 04/11/2023**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Ganesha Layout and Surrounding areas in Ward No.15 (Kuvempunagara)
Agency	:	Sri. B P Shanmugam, #28/2, 2nd Cross, Giddappa Block, Ganganagar, Bengaluru-560032.
Customer's Reference	:	BBMP/EE/BTP/WO/169/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-10-23
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	04/11/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	28/10/2023	04/11/2023	150.24 X 150.24 X 150.17	22572	8.957	320.9	14.2	14.6
2	Drain Side Wall Concrete	M20	28/10/2023	04/11/2023	150.09 X 150.86 X 150.53	22642	8.976	337.4	14.9	
3	Drain Side Wall Concrete	M20	28/10/2023	04/11/2023	150.20 X 150.22 X 151.00	22563	8.813	328.4	14.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-12-13-05** **Date: 25/11/2023**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Ganesha Layout and Surrounding areas in Ward No.15 (Kuvempunagara)
Agency	:	Sri. B P Shanmugam, #28/2, 2nd Cross, Giddappa Block, Ganganagar, Bengaluru-560032.
Customer's Reference	:	BBMP/EE/BTP/WO/169/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-10-23
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	25/11/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	28/10/2023	25/11/2023	150.68 X 150.98 X 150.66	22748	8.670	526.1	23.1	23.4
2	Drain Side Wall Concrete	M20	28/10/2023	25/11/2023	150.73 X 150.20 X 150.60	22639	8.374	542.1	23.9	
3	Drain Side Wall Concrete	M20	28/10/2023	25/11/2023	150.96 X 150.78 X 150.09	22762	8.852	523.9	23.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-12-13-05** **Date: 04/11/2023**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Ganesha Layout and Surrounding areas in Ward No.15 (Kuvempunagara)

Agency : Sri. B P Shanmugam, #28/2, 2nd Cross, Giddappa Block, Ganganagar, Bengaluru-560032.

Customer's Reference : BBMP/EE/BTP/WO/169/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 31-10-23

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/11/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	28/10/2023	04/11/2023	150.24 X 150.76 X 150.99	22651	8.503	337.3	14.9	14.6
2	Drain Side Wall Concrete	M20	28/10/2023	04/11/2023	150.35 X 150.10 X 150.08	22568	8.233	325.2	14.4	
3	Drain Side Wall Concrete	M20	28/10/2023	04/11/2023	150.32 X 150.72 X 150.24	22656	8.221	325.3	14.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2023-12-13-05 **Date: 25/11/2023**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore
Project Name	:	Improvements to Roads and Drains at Ganesha Layout and Surrounding areas in Ward No.15 (Kuvempunagara)
Agency	:	Sri. B P Shanmugam, #28/2, 2nd Cross, Giddappa Block, Ganganagar, Bengaluru-560032.
Customer's Reference	:	BBMP/EE/BTP/WO/169/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	31-10-23
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	25.11.2023

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	28.10.2023	25.11.2023	150.20 X 150.98 X 150.26	22678	8.595	528.1	23.3	23.3
2	Drain Side Wall Concrete	M20	28.10.2023	25.11.2023	150.92 X 150.41 X 150.31	22700	8.120	526.4	23.2	
3	Drain Side Wall Concrete	M20	28.10.2023	25.11.2023	150.10 X 150.84 X 150.20	22641	8.529	530.7	23.4	

* The results obtained are satisfactory as per standard requirements

Note:
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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-12-13-05** **Date: 04/11/2023**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Ganesha Layout and Surrounding areas in Ward No.15 (Kuvempunagara)

Agency : Sri. B P Shanmugam, #28/2, 2nd Cross, Giddappa Block, Ganganagar, Bengaluru-560032.

Customer's Reference : BBMP/EE/BTP/WO/169/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 31-10-23

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/11/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	28/10/2023	04/11/2023	150.99 X 150.04 X 150.44	22655	8.960	331.2	14.6	14.5
2	Drain Side Wall Concrete	M20	28/10/2023	04/11/2023	150.17 X 150.21 X 150.06	22557	8.706	328.0	14.5	
3	Drain Side Wall Concrete	M20	28/10/2023	04/11/2023	150.12 X 150.01 X 150.60	22521	8.410	324.1	14.4	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-12-13-05** **Date: 25/11/2023**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Ganesha Layout and Surrounding areas in Ward No.15 (Kuvempunagara)
Agency	:	Sri. B P Shanmugam, #28/2, 2nd Cross, Giddappa Block, Ganganagar, Bengaluru-560032.
Customer's Reference	:	BBMP/EE/BTP/WO/169/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	31-10-23
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	25/11/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	28/10/2023	25/11/2023	150.69 X 150.66 X 150.87	22703	8.951	538.2	23.7	23.8
2	Drain Side Wall Concrete	M20	28/10/2023	25/11/2023	150.61 X 150.18 X 150.05	22618	8.414	539.4	23.9	
3	Drain Side Wall Concrete	M20	28/10/2023	25/11/2023	150.43 X 150.40 X 150.08	22625	8.699	538.0	23.8	

* The results obtained are satisfactory as per standard requirements.

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-12-13-05 **Date: 07/11/2023**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Ganesha Layout and Surrounding areas in Ward No.15 (Kuvempunagara)

Agency : Sri. B P Shanmugam, #28/2, 2nd Cross, Giddappa Block, Ganganagar, Bengaluru-560032.

Customer's Reference : BBMP/EE/BTP/WO/169/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-11-23

Customer ID : PCC

Sample Type Size : 150X150X150 mm

Sample grade Age : M10 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 07.11.2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M10	31.10.2023	07.11.2023	150.89 X 150.92 X 150.69	22772	8.444	170.2	7.5	7.5
2	PCC	M10	31.10.2023	07.11.2023	150.00 X 150.95 X 150.75	22644	8.963	173.0	7.6	
3	PCC	M10	31.10.2023	07.11.2023	150.89 X 150.77 X 150.17	22749	8.095	169.0	7.4	

* The results obtained are satisfactory as per standard requirements.

Note:
The results pertain to the samples received and tested
All information furnished by Agency Representative
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Samples will be disposed after 30 days from the date of issue of test certificate

CIVIL Pro Sig Date BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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****End of Report****

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AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-12-13-05** **Date: 28/11/2023**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Ganesha Layout and Surrounding areas in Ward No.15 (Kuvempunagara)
Agency	:	Sri. B P Shanmugam, #28/2, 2nd Cross, Giddappa Block, Ganganagar, Bengaluru-560032.
Customer's Reference	:	BBMP/EE/BTP/WO/169/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-11-23
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M10 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	28/11/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M10	31/10/2023	28/11/2023	150.13 X 150.42 X 150.82	22582	8.697	280.1	12.4	12.4
2	PCC	M10	31/10/2023	28/11/2023	150.19 X 150.42 X 150.42	22592	8.994	277.8	12.3	
3	PCC	M10	31/10/2023	28/11/2023	150.40 X 150.07 X 150.11	22571	8.385	281.9	12.5	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

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AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-12-13-05** **Date: 07/11/2023**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Ganesha Layout and Surrounding areas in Ward No.15 (Kuvempunagara)

Agency : Sri. B P Shanmugam, #28/2, 2nd Cross, Giddappa Block, Ganganagar, Bengaluru-560032.

Customer's Reference : BBMP/EE/BTP/WO/169/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-11-23

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/11/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M10	31/10/2023	07/11/2023	150.75 X 150.37 X 150.22	22669	8.444	159.4	7.0	7.4
2	PCC	M10	31/10/2023	07/11/2023	150.38 X 150.08 X 150.47	22569	8.963	164.0	7.3	
3	PCC	M10	31/10/2023	07/11/2023	150.45 X 150.46 X 150.45	22636	8.095	180.3	8.0	

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Agency	:	Sri. B P Shanmugam, #28/2, 2nd Cross, Giddappa Block, Ganganagar, Bengaluru-560032.
Customer's Reference	:	BBMP/EE/BTP/WO/169/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-11-23
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M10 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	28/11/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M10	31/10/2023	28/11/2023	150.73 X 150.61 X 150.30	22701	8.730	282.1	12.4	12.2
2	PCC	M10	31/10/2023	28/11/2023	150.80 X 150.24 X 150.30	22657	8.445	269.2	11.9	
3	PCC	M10	31/10/2023	28/11/2023	150.73 X 150.35 X 150.63	22662	8.785	275.9	12.2	

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